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## **CLAIMS**

1. A terminal for generating an electromagnetic field adapted to communicating with at least one transponder entering this field, including:  $\sqrt{\phantom{a}}$ 

an oscillating circuit adapted to being excited by a high-frequency remote supply signal of the transponder;

an amplitude demodulator for detecting possible data transmitted by the transponder by modulating, at the rate of a sub-carrier, a load that it forms on the terminal's oscillating circuit;

and including:

means for regulating a signal phase in the terminal's oscillating circuit in response to a reference value having a long response time as compared to said sub-carrier;

means for measuring variables linked to a current in the oscillating circuit and to a voltage thereacross; and

means for comparing present values of these variables to predetermined values.

2. The terminal of claim 1, further including: means for deactivating said phase regulation means; and

means for forcing a value of a settable element of the oscillating circuit.

3. The terminal of claim 2, wherein said settable element is formed of a variable capacitive element of the oscillating circuit of the terminal.

- 4. The terminal of claim 2, wherein the settable element is common to the phase regulation means and to the forcing means.
- 5. A method for controlling the terminal of claim 1, including exploiting the results of the comparison means to detect a presence of a transponder in the terminal's field.
- 6. The method of claim 5, including, in the absence of a useful signal of sufficient amplitude to enable detection of data by the demodulator and if a transponder has been detected by the comparison of the current and predetermined values:

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deactivating the phase regulation means; and

forcing the value of the settable element of the oscillating circuit to a value such that said variables recover said predetermined values.

- 7. The method of claim 5, wherein said predetermined values correspond to values measured and stored during an off-load operation of the terminal, while no transponder is present in its field.
- 8. The method of claim 7, including forcing the value of the settable element to a value determined by the phase regulation means during the off-load operation.